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INFORMATION DISCLOSURE	Filing Date		
	First Named Inventor	CHAMPION, David	
STATEMENT BY APPLICANT	Art Unit	01	
(Use as many sheets as necessary)	Examiner Name		
Sheet 1 of 3	Attorney Docket Number	200300734	

Examiner	Cac		U. S. PATENT	DOCUMENTS	
Initials*	Cite No. <sup>1</sup>	Document Number  Number-Kind Code <sup>2 (# known)</sup>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Cotumns, Lines, Where Relevant Passages or Relevant Figures Appear
/N.W./	<u> </u>	<sup>us-</sup> 20020154403-A1	10-24-2002	TROTTER, JR.	
/N.W./		<sup>US-</sup> 6.468,823-B1	10-22-2002	SCHERER ET AL.	
/N.W./		<sup>US-</sup> 6,392,787-B1	05-21-2002	CIRELLI ET AL.	
/N.W./		<sup>US-</sup> 6,358,854-B1	03-19-2002	FLEMING ET AL.	
/N.VV./		<sup>US-</sup> 6,358,653-B1	03-19-2002	TURBERFIELD ET AL	
/N.W./		<sup>US-</sup> 6,139,626-B	10-31-2000	NORRIS ET AL.	
/N.W./		<sup>US-</sup> 5.998,298-B	12-07-1999	FLEMING ET AL.	
/N.W./		<sup>US-</sup> 5,997,795-B	12-07-1999	DANFORTH ET AL.	
/N.W./		<sup>US-</sup> 5,651,818-B	07-29-1997	MILSTEIN ET AL.	
/N.W./		<sup>US-</sup> 5,600,483-B	02-04-1997	FAN ET AL.	
/N.W./		<sup>US-</sup> 5,440,421-B	08-08-1995	FAN ET AL	
/N.W./		<sup>US-</sup> 5,406,573-B	04-11-1995	OZBAY ET AL.	
<u>/N.W./</u>		<sup>US-</sup> 5,349,265-B	09-20-1994	LEMELSON	
N.W./ •		us- 5,335,240-B	08-02-1994	HO ET AL.	
/N.W./		us- 5,172,267-B	12-15-1992	YABLONOVITCH	
N.W./		<sup>US-</sup> 3,604,970-B	09-14-1971	CULBERTSON ET AL.	
		US-			
		US-			
		US-			

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines,	Γ
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	MM-DD-YYYY	Applicant of Cited Document	Where Relevant Passages Or Relevant Figures Appear	<b>⊤</b> ⁵
/N.W./		JP-2002-323632-A	11-08-2002	Sumitomo Heavy	Abstract	1
/N.W./		JP-2002-323631-A	11-08-2002	Sumitomo Heavy	Abstract	1
/N.W./	L	JP-2000-314817-A		Nippon Telegrap	Abstract	V
_/N,W./		JP-2000-284136-A		Nippon Telegrap	Abstract	1
/N.W./		JP 2000-258650-A	09-22-2000	Nippon Telegrap	Abstract	
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## STATEMENT BY APPLICANT

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Sheet 2 3

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First Named Inventor	CHAMPION, David				
Art Unit					
Examiner Name					
Attorney Docket Number	200300734 - 1				

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
/N.W./		LERNER, "Brighter lights from photonic crystals" Indust. Physicist (Aug./Sep. 2002) p. 13	
/N.W./		HEWITT, "Moulds Cut Photonic Crystal Costs" 5/16/02 http://nanotechweb.org/articles/news/1/5/8/1	
/N.W./		ANON."Tungsten filam"The Hindu 5-9-02 http://www.hinduonnet.com/thehindu/seta/2002/05/09/stories/	
/N.W./		FLEMING et al. "All-metallic three-dimensional photonic" Nature V. 417 (5-2-02), p. 52-55	
/N.W./		SERVICE, "Building Better Photonic Crystals" SCIENCE V. 295 (Mar. 29, 2002) p. 2399	
/N.W./		Anon. "Si-based photonic" http://fisicavolta.unipv.it/dipartimento/ricerca/fotonici/Cofinpdf published 2002	
/N.W./		VLASOV et al. "On-chip natural assembly of silicon photonic" Nature, V. 414 (11-15-01), p.289 ff	
/N.W./		LIN et al. "Silicon Three-dimensional Photonic" Sandia National Lab report SAND2001-3612 (11/01)	
/N.W./	•	GASSER et al. "Real-Space Imaging of Nucleation and Growth " Science V 292 (4-13-01) pp. 258-262	
/N.W./		NORRIS et al. "Chemical Approaches to Three-Dim" Adv. Mater., V. 13 (6) (03-16-01). pp. 371-376	

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l a	/Natalie Walford/		Date	03/01/2010
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/N.W./		PARKER et al. "Photonic Crytstals" Aug. 2000 http://physicsweb.org/article/world/13/8/9/1	
/N.W./		WANG et al. "Direct nanoimprint of submicron" Appl. Phys. Let. V. 75 (18) (11-1-99) pp. 2767-2769	
/N.W./	,	VLASOV et al. "Synthesis of Photonic Crystals " Adv. Mater., V. 11 (2) (1999) pp. 165-169	
/N.W./		ASTRATOV et al. "Photonic band gaps in 3D ordered fcc" Phys. Let. A 222 (11-11-96) pp. 349-353	
/N.W./	, , ,	MCGURN et al. "Photonic band structures of two" Phys. Rev. B, V. 48(23) 12-15-93 pp. 17576-17579	
/N.W./		YABLONOVITCH et al. "Photonic Band Structure: " Phys. Rev. Letters V. 67(17) 10-21-91, pp. 2295-2298	
/N.W./		HO et al. "Existence of a Photonic Gap" Phys. Rev. Letters V. 65(25) 12-17-90, pp. 3152-3155	

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Signature	/Natalie Walford/	Date	02/04/0040
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